Protein Tyrosine Phosphatase PTPRK (1st Catalytic Domain)

Human, recombinant protein expressed in *E. coli.*, Active

Cat# CY-E1316

Amount: 50µg (0.35µg/µl)
Lot:

**Introduction:**

PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTPRK possesses an extracellular region, a single transmembrane region, and two tandem intracytoplasmic protein tyrosine phosphatase (PTPase) domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. PTPRK was shown to mediate homophilic intercellular interaction, possibly through the interaction with beta- and gamma-catenin at adherens junctions.

**Product Description:**

1st PTPase domain of human PTPRK, containing 914-1141 a.a., and an N-terminal GST tag, expressed in *E. coli.* and purified by GSH agarose chromatography.

**Gene Information:**

The gene/protein accession number is NM_002844/NP_002835.

**Gene Aliases:**

Protein tyrosine phosphatase receptor type K, R-PTP-kappa

**Formulation:**

The recombinant protein is supplied frozen in a buffer containing 100mM NaCl, 20mM Tris-HCl (pH 7.0), 1mM DTT, 1mM EDTA and 50% glycerol. Use a same buffer for dilution when needed.

**Molecular Weight:**

Recombinant PTPRK (1st PTPase Domain) demonstrates approximately 57 kDa band by SDS-PAGE analysis.
Protein Tyrosine Phosphatase PTPRK (1st Catalytic Domain)
Product Data Sheet
For Research Use Only, Not for use in diagnostic procedures

Specific Activity:
2426 units/µg. This unit value is determined at the point of production and may vary with time and various conditions. Specific Activity also varies among production lots.

Unit Definitions:
One unit is defined as the amount of phosphatase required to release 1 pmol of phosphate from CycLex’s PTP substarate-1 per minute at 30°C.

Storage:
Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability:
Unopened vial at -70 °C, for 1 year after delivery.

References:

PRODUCED BY
CycLex Co., Ltd.
1063-103 Terasawaoka
Ina, Nagano 396-0002
Japan
Fax: +81-265-76-7618
e-mail: info@cyclex.co.jp
URL: http://www.cyclex.co.jp

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